



# SOLVAY MINERALS

January 4, 2002

Mr. Dan Olson  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
Air Quality Division  
Herschler Building  
122 West 25th Street  
Cheyenne, WY 82002

RE: Chapter 6, Section 3 Operating Permit 30-126 One Hour Visual Observations

Dear Mr. Olson:

Please find enclosed with this letter Method 9 opacity observations of point sources under Operating Permit 30-126. These observations are required by permit condition (F8) ORE AND PRODUCT BAGHOUSES AND VENTS Section (a). The observations were conducted by a qualified observer in accordance with Section 3.1 of Method 9 and followed the requirements and procedures of Method 9. Observations were made on "D" Train Primary Crushing and Screening Baghouse (AQD #76), Ore Transfer Point Baghouse (AQD #79), and "D" Train Dryer Area Baghouse (AQD# 81).

Also enclosed are a signed certification by Mr. Ron Hughes, Resident Manager, site map of observation locations, and Method 9 certification.

If you have any questions, do not hesitate to call me at (307) 872-6570.

Sincerely,

Timothy Brown  
Environmental Technician

TAB

Enclosures

cc: Mr. Tony Hoyt, DEQ-Lander office





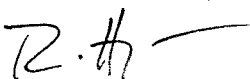
**SOLVAY  
MINERALS**

**Solvay Minerals, Inc.**

**RE: Visible Emissions Observations  
AQD #s 76, #79, #81**

**"I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this report are true, accurate, and complete."**

**Name: Ronald O. Hughes**

**Signature:** 

**Title: Resident Manager**

**Date: 1-4-02**

**“D” TRAIN PRIMARY CRUSHING  
AND SCREENING BAGHOUSE**

**AQD #76**

**OBSERVATION DATE:**

**12/12/01**

# VISIBLE EMISSION OBSERVATION FORM

SOURCE NAME <b>Solvay Minerals</b>				OBSERVATION DATE: <b>12/12/01</b>				START TIME <b>14:40</b>		STOP TIME <b>15:40</b>			
ADDRESS <b>20 miles west of Green River, WY</b>				SEC					SEC				
				MIN	0	15	30	45	MIN	0	15	30	
City <b>Green River</b>				STATE <b>Wyoming</b>				ZIP <b>82935</b>					
PHONE <b>1-307-875-6500</b>				SOURCE ID NUMBER <b>AQD #76</b>				1	0	0	0	0	
								2	0	0	0	0	0
PROCESS EQUIPMENT <b>"D" Train Primary Crushing and Screening</b>				OPERATING MODE <b>414 TPH</b>				3	0	0	0	0	
								4	0	0	0	0	0
CONTROL EQUIPMENT <b>Baghouse</b>				OPERATING MODE				5	0	0	0	0	
								6	0	0	0	0	0
DESCRIBE EMISSION POINT <b>START - Round Stack</b>				STOP - Same				7	0	0	0	0	
								8	0	0	0	0	0
HEIGHT ABOVE GROUND LEVEL <b>START 110'</b>				HEIGHT RELATIVE TO OBSERVER <b>START 110'</b>				9	0	0	0	0	
								10	0	0	0	0	0
DISTANCE FROM OBSERVER <b>START ~300'</b>				DIRECTION FROM OBSERVER <b>START- NE STOP- NE</b>				11	0	0	0	0	
								12	0	0	0	0	0
DESCRIBE EMISSION <b>START None STOP None</b>								13	0	0	0	0	
								14	0	0	0	0	0
EMISSION COLOR <b>START- NA STOP-NA</b>				PLUME TYPE: CONTINUOUS <input type="checkbox"/> FUGITIVE <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>				15	0	0	0	0	
								16	0	0	0	0	0
WATER DROPLETS PRESENT: <b>NO <input type="checkbox"/> YES <input type="checkbox"/></b>				IF WATER DROPLET PLUME: ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>				17	0	0	0	0	
								18	0	0	0	0	0
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED <b>Stack Exit STOP Stack Exit</b>								19	0	0	0	0	
								20	0	0	0	0	0
DESCRIBE BACKGROUND <b>START- Sky STOP- Sky</b>								21	0	0	0	0	
								22	0	0	0	0	0
BACKGROUND COLOR <b>START-Blue STOP-Blue</b>				SKY CONDITIONS <b>START - Clear STOP - Clear</b>				23	0	0	0	0	
								24	0	0	0	0	0
WIND SPEED <b>START - 16mph STOP - 19mph</b>				WIND DIRECTION <b>START - W STOP - W</b>				25	0	0	0	0	
								26	0	0	0	0	0
AMBIENT TEMP <b>START - 20° STOP - 19°</b>				WET BULB TEMP <b>n/a</b>				RH percent <b>60%</b>					
<p>EMISSION POINT</p> <p>PLUME</p> <p>SUN</p> <p>WIND DIRECTION</p> <p>NORTH</p>				AVERAGE OPACITY FOR HIGHEST PERIOD <b>0%</b>				NUMBER OF READINGS ABOVE <b>7 % WERE: 0</b>					
				RANGE OF OPACITY READINGS MINIMUM <b>0%</b> MAXIMUM <b>0%</b>									
				OBSERVER'S NAME (PRINT) <b>Timothy Brown</b>									
				OBSERVER'S SIGNATURE <i>Timothy Brown</i>				DATE <b>12/12/01</b>					
				ORGANIZATION <b>SOLVAY MINERALS</b>									
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS SIGNATURE				CERTIFIED BY <b>OPACITEK</b>				DATE <b>09/24/01</b>					
DATE				VERIFIED BY				DATE					

**SOLVAY2016\_1.4\_000147**

# **OBSERVATION SUMMARY**

## **D" Train Primary Crushing and Screening - AQD #76**

SOLVAY MINERALS, INC.			
6 MINUTE AVERAGE	RUN #1	RUN #2	RUN #3
1-6	0	NA	NA
7-12	0	NA	NA
13-18	0	NA	NA
19-24	0	NA	NA
25-30	0	NA	NA
31-36	0	NA	NA
37-42	0	NA	NA
43-48	0	NA	NA
49-54	0	NA	NA
55-60	0	NA	NA

**OBSERVER: Timothy Brown**

**12/12/01**

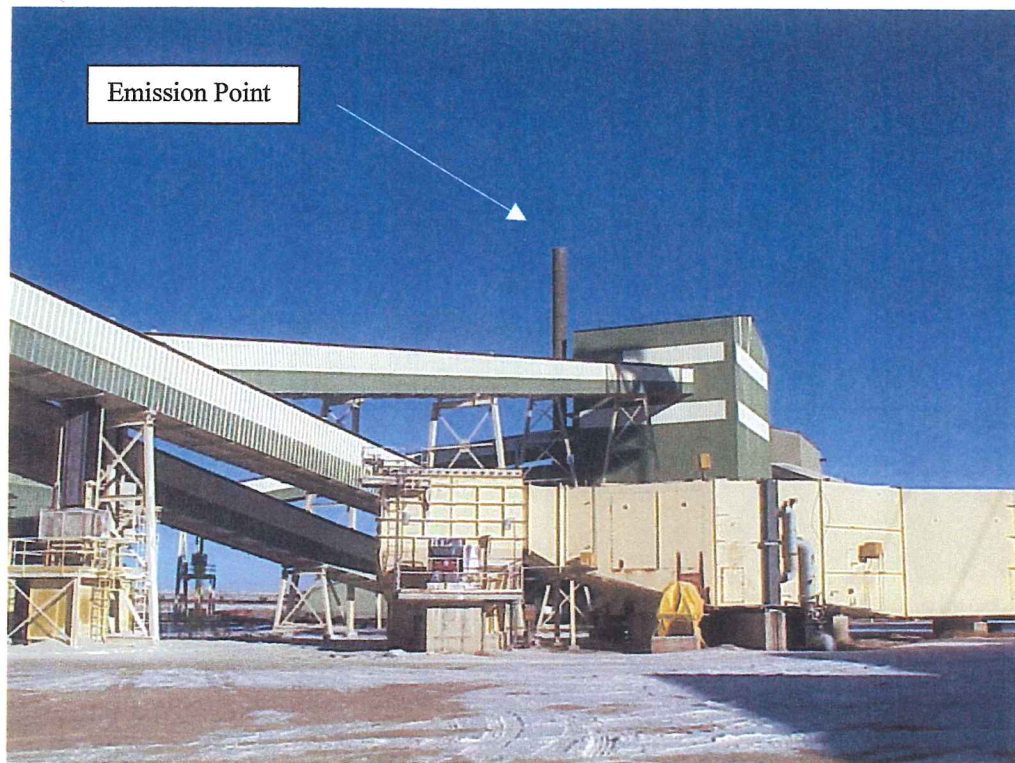
**CERTIFIED BY: OPACITEK**

**CERTIFICATION EXPIRES: 3/24/02**

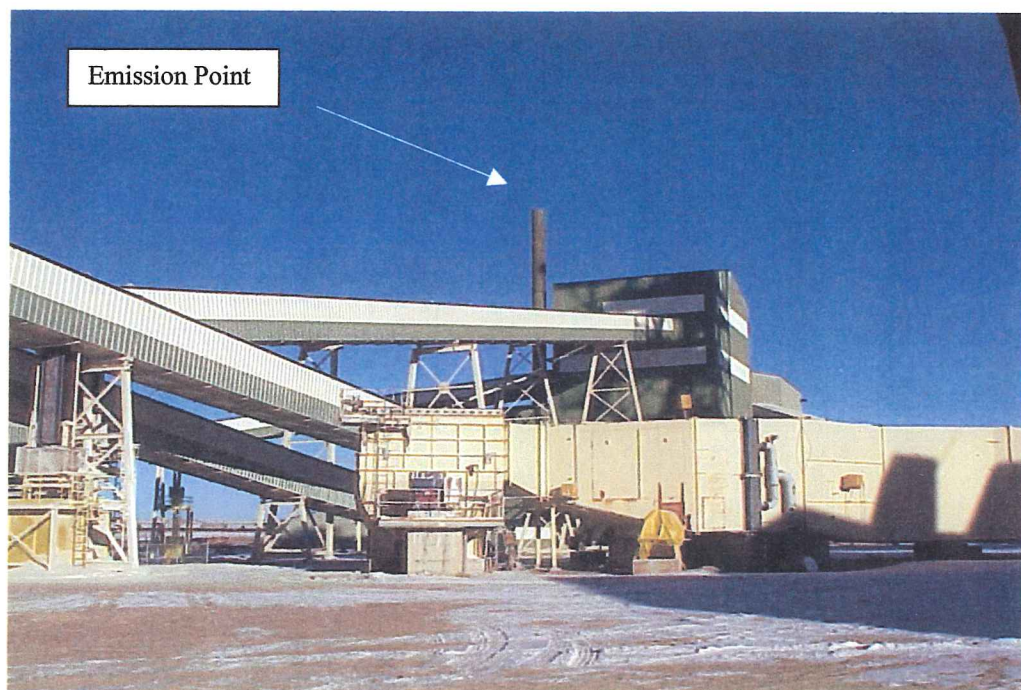
**SOLVAY2016\_1.4\_000148**



Primary Crushing and Screening-AQD #76  
Test Date: 12/12/01, Start Time: 14:40



Primary Crushing and Screening-AQD #76  
Test Date: 12/12/01, Stop Time: 15:40



ORE TRANSFER POINT BAGHOUSE

AQD #79

OBSERVATION DATE:

12/12/01

# VISIBLE EMISSION OBSERVATION FORM

SOURCE NAME <b>Solvay Minerals</b>				OBSERVATION DATE: <b>12/12/01</b>				START TIME <b>14:40</b>				STOP TIME <b>15:40</b>																							
ADDRESS <b>20 miles west of Green River, WY</b>				SEC MIN		0		15		30		45		SEC MIN		0		15		30		45													
<b>Green River, WY 82935</b>				1		0		0		0		0		31		0		0		0		0													
				2		0		0		0		0		0		32		0		0		0		0											
CITY <b>Green River</b>		STATE <b>Wyoming</b>		ZIP <b>82935</b>		3		0		0		0		0		33		0		0		0		0											
PHONE <b>1-307-875-6500</b>		SOURCE ID NUMBER <b>AQD #79</b>				4		0		0		0		0		34		0		0		0		0											
PROCESS EQUIPMENT <b>"D" Train Ore Transfer Point</b>		OPERATING MODE <b>414 TPH</b>				5		0		0		0		0		35		0		0		0		0											
CONTROL EQUIPMENT <b>Baghouse</b>		OPERATING MODE				6		0		0		0		0		36		0		0		0		0											
DESCRIBE EMISSION POINT <b>START - Square Duct Facing West STOP - Same</b>						7		0		0		0		0		37		0		0		0		0											
HEIGHT ABOVE GROUND LEVEL <b>START 60'</b>						8		0		0		0		0		38		0		0		0		0											
DISTANCE FROM OBSERVER <b>START ~150'</b>						9		0		0		0		0		39		0		0		0		0											
DIRECTION FROM OBSERVER <b>START- N STOP- N</b>						10		0		0		0		0		40		0		0		0		0											
DESCRIBE EMISSION <b>START None STOP None</b>						11		0		0		0		0		41		0		0		0		0											
EMISSION COLOR <b>START-NA STOP-NA</b>						12		0		0		0		0		42		0		0		0		0											
PLUME TYPE: CONTINUOUS <input type="checkbox"/> FUGITIVE <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>						13		0		0		0		0		43		0		0		0		0											
WATER DROPLETS PRESENT: <b>NO <input type="checkbox"/> YES <input type="checkbox"/></b>						14		0		0		0		0		44		0		0		0		0											
IF WATER DROPLET PLUME: <b>ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/></b>						15		0		0		0		0		45		0		0		0		0											
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED <b>START Stack Exit STOP Stack Exit</b>						16		0		0		0		0		46		0		0		0		0											
DESCRIBE BACKGROUND <b>START- Sky STOP - Sky</b>						17		0		0		0		0		47		0		0		0		0											
BACKGROUND COLOR <b>START-Blue STOP-Blue</b>						18		0		0		0		0		48		0		0		0		0											
SKY CONDITIONS <b>START - Clear STOP - Clear</b>						19		0		0		0		0		49		0		0		0		0											
WIND SPEED <b>START - 16mph STOP - 19mph</b>						20		0		0		0		0		50		0		0		0		0											
WIND DIRECTION <b>START - W STOP - W</b>						21		0		0		0		0		51		0		0		0		0											
AMBIENT TEMP <b>START - 20° STOP - 19°</b>						22		0		0		0		0		52		0		0		0		0											
WET BULB TEMP <b>n/a</b>						23		0		0		0		0		53		0		0		0		0											
RH percent <b>60%</b>						24		0		0		0		0		54		0		0		0		0											
<p>EMISSION POINT</p> <p>PLUME</p> <p>SUN</p> <p>WIND DIRECTION</p> <p>NORTH</p>						AVERAGE OPACITY FOR HIGHEST PERIOD <b>0%</b>										NUMBER OF READINGS ABOVE <b>7 % WERE: 0</b>																			
						RANGE OF OPACITY READINGS MINIMUM <b>0%</b> MAXIMUM <b>0%</b>																													
						OBSERVER'S NAME (PRINT) <b>Timothy Brown</b>																													
						OBSERVER'S SIGNATURE <i>Timothy Brown</i>										DATE <b>12/12/01</b>																			
						ORGANIZATION <b>SOLVAY MINERALS</b>																													
												I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS SIGNATURE										CERTIFIED BY <b>OPACITEK</b>										DATE <b>09/24/01</b>			
												DATE										VERIFIED BY										DATE			

**SOLVAY2016\_1.4\_000151**



**OBSERVATION SUMMARY**  
**"D" Train Ore Transfer Point - AQD #79**

SOLVAY MINERALS, INC.			
6 MINUTE AVERAGE	RUN #1	RUN #2	RUN #3
1-6	0	NA	NA
7-12	0	NA	NA
13-18	0	NA	NA
19-24	0	NA	NA
25-30	0	NA	NA
31-36	0	NA	NA
37-42	0	NA	NA
43-48	0	NA	NA
49-54	0	NA	NA
55-60	0	NA	NA

OBSERVER: Timothy Brown

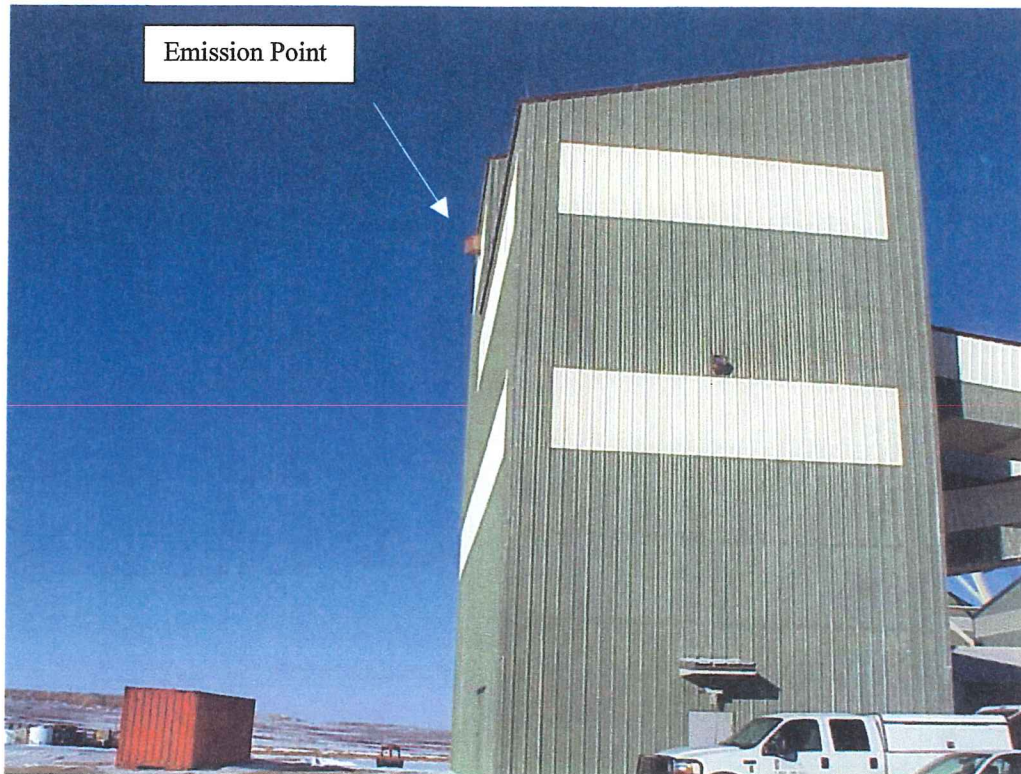
12/12/01

CERTIFIED BY: OPACITEK

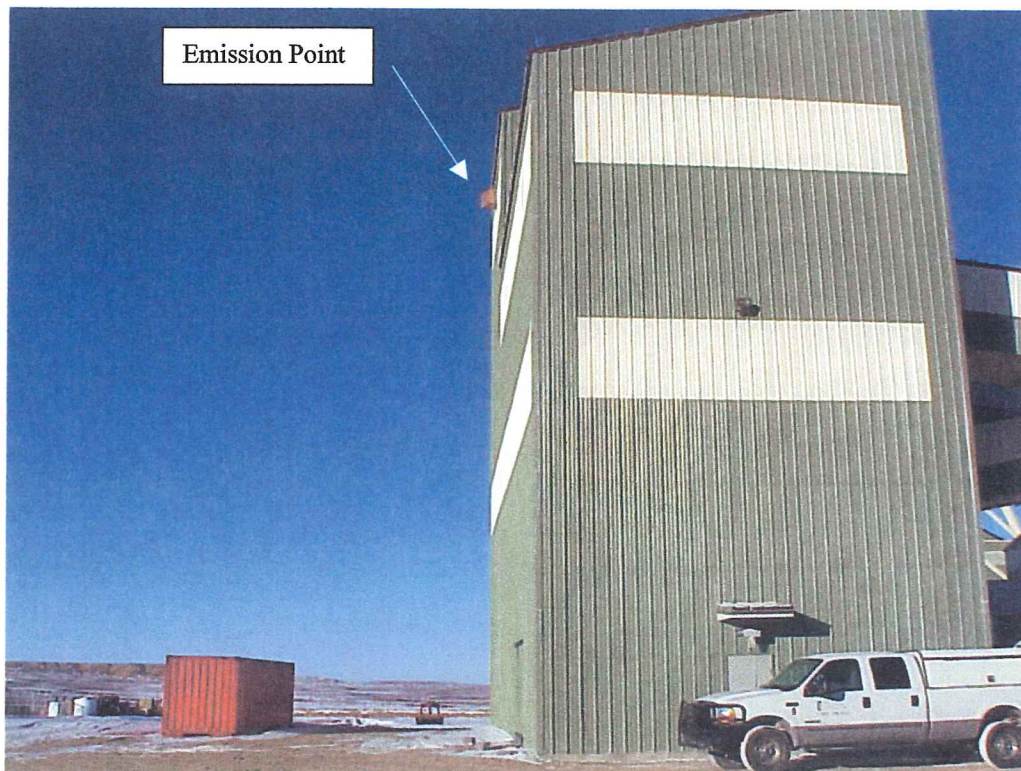
CERTIFICATION EXPIRES: 3/24/02

**SOLVAY2016\_1.4\_000152**

Ore Transfer Point-AQD #79  
Test Date: 12/12/01, Start Time: 14:40



Ore Transfer Point-AQD #79  
Test Date: 12/12/01, StopTime: 15:40



**SOLVAY2016\_1.4\_000153**

“D” TRAIN DRYER AREA  
BAGHOUSE

AQD #81

OBSERVATION DATE:

10/29/01

# VISIBLE EMISSION OBSERVATION FORM

SOURCE NAME <b>Solvay Minerals</b>				OBSERVATION DATE: <b>10/29/01</b>				START TIME <b>14:15</b>		STOP TIME <b>15:15</b>				
ADDRESS <b>20 miles west of Green River, WY</b>				SEC					SEC					
				MIN	0	15	30	45	MIN	0	15	30		
				1	0	0	0	0	31	0	0	0		
				2	0	0	0	0	32	0	0	0	0	
CITY <b>Green River</b>		STATE <b>Wyoming</b>		ZIP <b>82935</b>		3	0	0	0	33	0	0		
PHONE <b>1-307-875-6500</b>		SOURCE ID NUMBER <b>AQD #81</b>				4	0	0	0	34	0	0		
PROCESS EQUIPMENT <b>"D" Train Dryer Area Baghouse</b>		OPERATING MODE <b>125 TPH</b>				5	0	0	0	35	0	0		
CONTROL EQUIPMENT <b>Baghouse</b>		OPERATING MODE				6	0	0	0	36	0	0		
						7	0	0	0	37	0	0		
						8	0	0	0	38	0	0		
						9	0	0	0	39	0	0		
						10	0	0	0	40	0	0		
DESCRIBE EMISSION POINT <b>START - Round Stack STOP - Same</b>						11	0	0	0	41	0	0		
						12	0	0	0	42	0	0		
HEIGHT ABOVE GROUND LEVEL <b>START 120'</b>		HEIGHT RELATIVE TO OBSERVER <b>START 8'</b>				13	0	0	0	43	0	0		
						14	0	0	0	44	0	0		
DISTANCE FROM OBSERVER <b>START ~30'</b>		DIRECTION FROM OBSERVER <b>START- NE STOP- NE</b>				15	0	0	0	45	0	0		
						16	0	0	0	46	0	0		
DESCRIBE EMISSION <b>START None STOP None</b>						17	0	0	0	47	0	0		
						18	0	0	0	48	0	0		
EMISSION COLOR <b>START- NA STOP- NA</b>		PLUME TYPE: CONTINUOUS <input type="checkbox"/> FUGITIVE <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>				19	0	0	0	49	0	0		
						20	0	0	0	50	0	0		
WATER DROPLETS PRESENT: <b>NO <input type="checkbox"/> YES <input type="checkbox"/></b>		IF WATER DROPLET PLUME: ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>				21	0	0	0	51	0	0		
						22	0	0	0	52	0	0		
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED <b>T Stack Exit STOP Stack Exit</b>						23	0	0	0	53	0	0		
						24	0	0	0	54	0	0		
DESCRIBE BACKGROUND <b>START- Sky STOP - Sky</b>						25	0	0	0	55	0	0		
						26	0	0	0	56	0	0		
BACKGROUND COLOR <b>START-Blue STOP-Blue</b>		SKY CONDITIONS <b>START - Hazy STOP - Hazy</b>				27	0	0	0	57	0	0		
						28	0	0	0	58	0	0		
WIND SPEED <b>START - 5mph STOP - 5mph</b>		WIND DIRECTION <b>START - NE STOP - NE</b>				29	0	0	0	59	0	0		
						30	0	0	0	60	0	0		
AMBIENT TEMP <b>START - 64° STOP - 65°</b>		WET BULB TEMP <b>n/a</b>		RH percent <b>24%</b>		<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> AVERAGE OPACITY FOR HIGHEST PERIOD <b>0%</b> </div> <div style="width: 45%;"> NUMBER OF READINGS ABOVE <b>7 % WERE: 0</b> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> RANGE OF OPACITY READINGS MINIMUM <b>0%</b> </div> <div style="width: 45%;"> MAXIMUM <b>0%</b> </div> </div> OBSERVER'S NAME (PRINT) <b>Timothy Brown</b>								
				OBSERVER'S SIGNATURE <i>Timothy Brown</i>									DATE <b>10/29/01</b>	
				ORGANIZATION <b>SOLVAY MINERALS</b>										
				I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS SIGNATURE										
DATE				CERTIFIED BY <b>OPACITEK</b>		DATE <b>09/24/01</b>								
DATE				VERIFIED BY		DATE								

**SOLVAY2016\_1.4\_000155**

# OBSERVATION SUMMARY

## "D" Train Dryer Area Baghouse - AQD #81

SOLVAY MINERALS, INC.			
6 MINUTE AVERAGE	RUN #1	RUN #2	RUN #3
1-6	0	NA	NA
7-12	0	NA	NA
13-18	0	NA	NA
19-24	0	NA	NA
25-30	0	NA	NA
31-36	0	NA	NA
37-42	0	NA	NA
43-48	0	NA	NA
49-54	0	NA	NA
55-60	0	NA	NA

OBSERVER: Timothy Brown

10/29/01

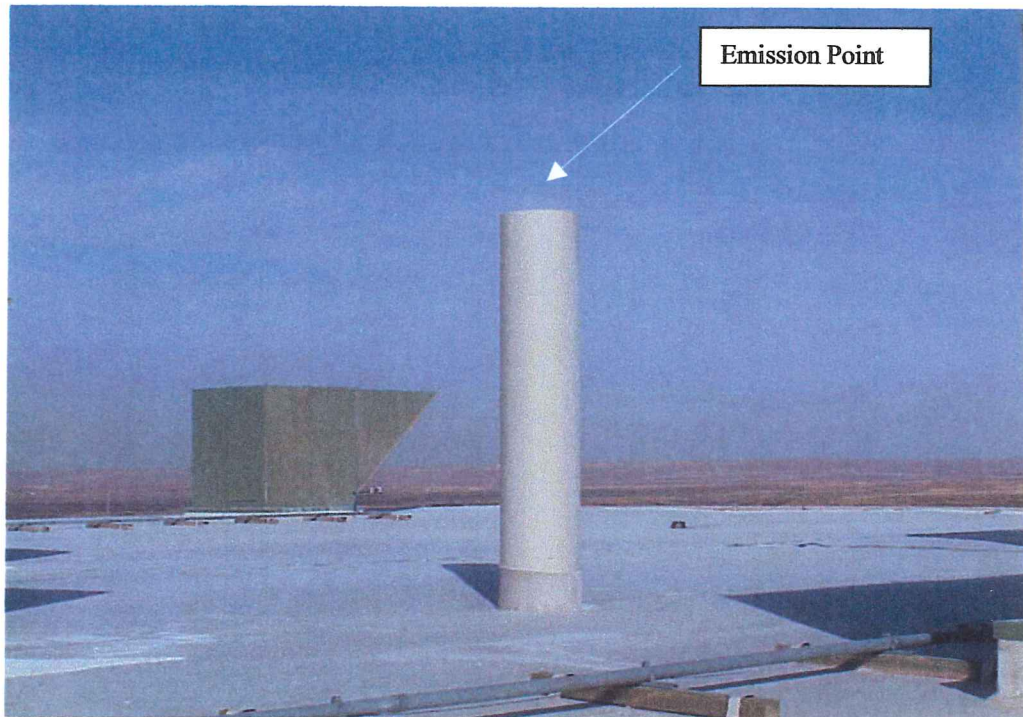
CERTIFIED BY: OPACITEK

CERTIFICATION EXPIRES: 3/24/02

**SOLVAY2016\_1.4\_000156**

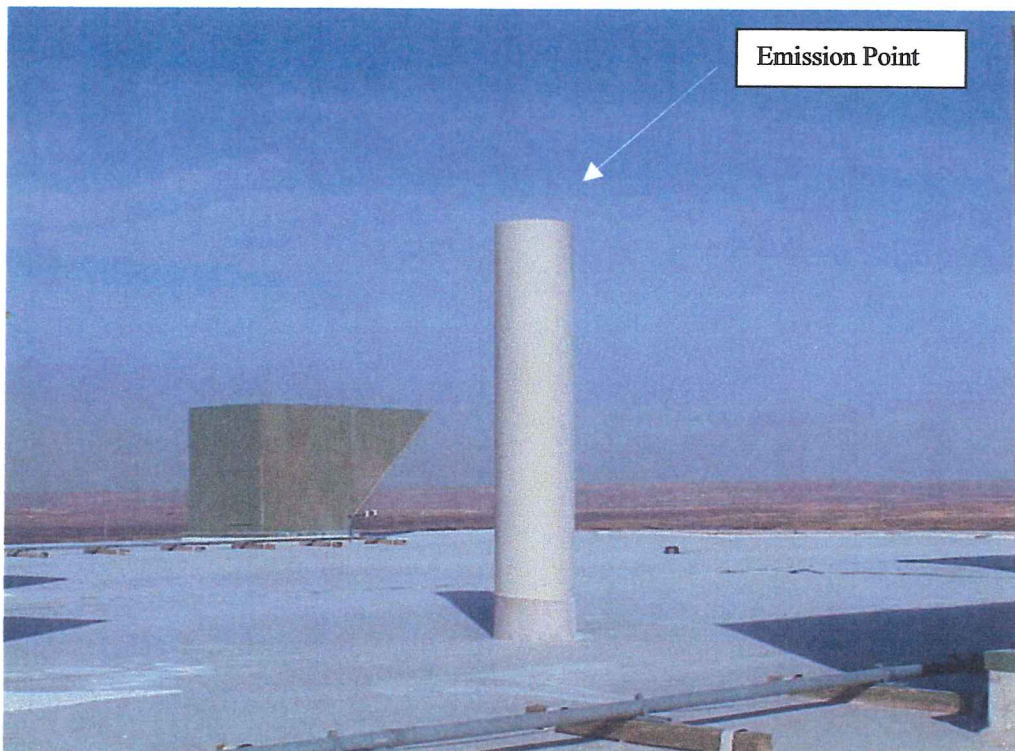


Dryer Area Baghouse – AQD #81, Test Date: 10/29/01  
Start Time: 14:15



Emission Point

Dryer Area Baghouse – AQD #81, Test Date: 10/29/01  
Stop Time: 15:15



Emission Point



VISIBLE EMISSIONS  
CERTIFICATION



# OPACITEK

## Environmental Services

Awards this Certificate to

TIMOTHY BROWN

For Successfully Completing the  
Federal EPA Method 9  
Visible Emissions Evaluation Course

*Daniel L. Soli*

Manager

BOUNTIFUL, UT.

Location

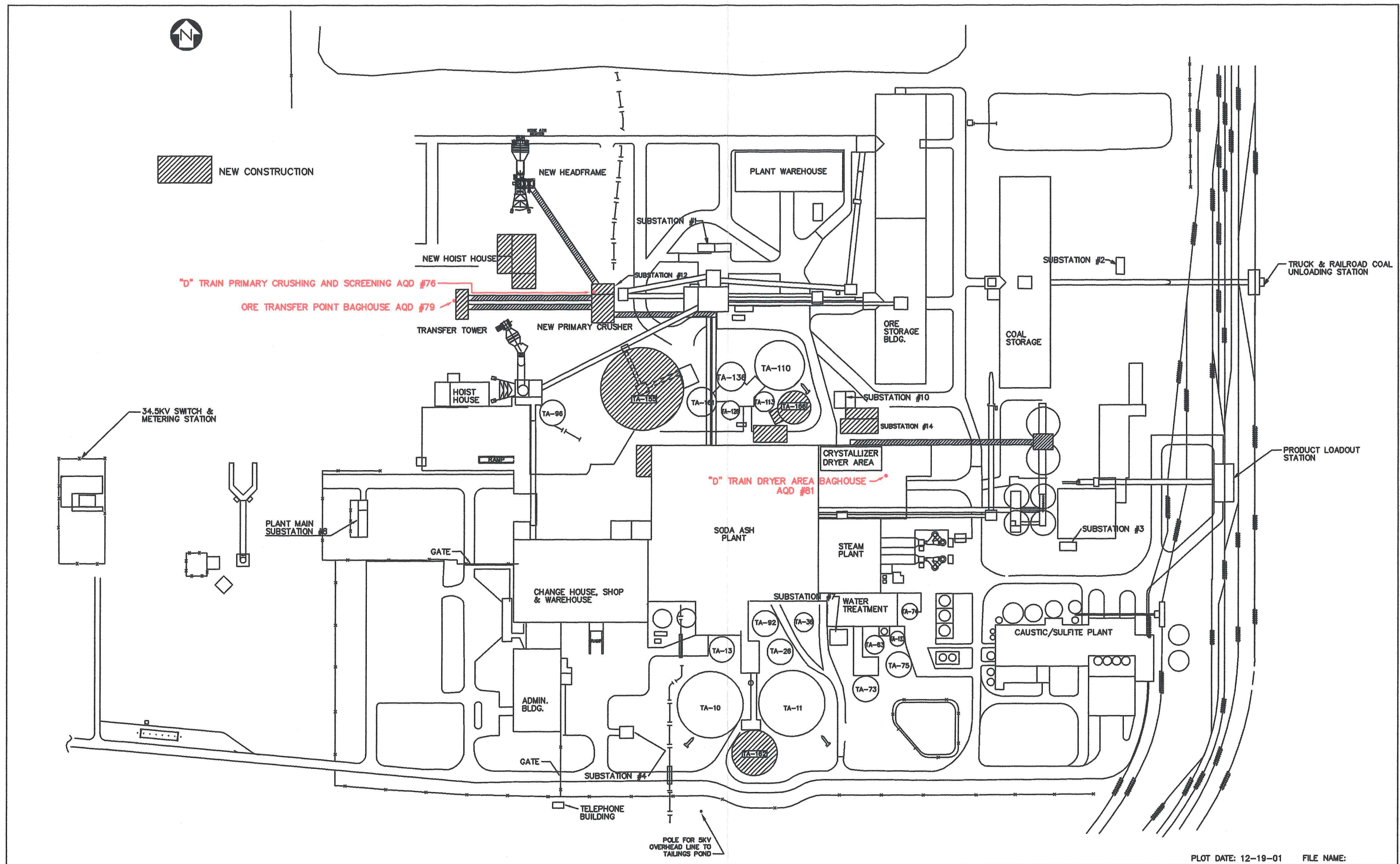
SEP 24 2001

Date of Certification

01037



# SITE MAP



PLOT DATE: 12-19-01 FILE NAME:

NO.	REVISIONS	BY	DATE	DWG. NO.	REFERENCE DRAWINGS
		T.J.C.	12-11-01	000-G-201	SURFACE FACILITY PLOT PLAN
20	ADDED MH & DUCT AT COAL STORAGE	G.C.W.	9-9-99	000-EE-041	GEN. ELEC. UNDERGROUND PLOT PLAN
21	1999 GROUND GRID TEST	G.C.W.	11-19-99		
22	REVISED PER SSI	G.C.W.	01-04-00		
23	REVISED PLO WATER LINE	AVh	05-04-00		
18	1998 GROUND GRID TEST	G.C.W.	11-20-98		

THIS DRAWING IS THE PROPERTY OF SOLVAY MINERALS AND SHALL NOT BE COPIED OR REPRODUCED IN WHOLE OR IN PART OR DISCLOSED TO ANY THIRD PARTY OR USED IN ANY WAY WITHOUT THE WRITTEN CONSENT OF  
**SOLVAY MINERALS**

AFE NO.	DATE
DESIGNED BY	
DRAWN BY	G.C.W. 7-93
CHECKED BY	P.C.J. 7-93
APPROVED BY	
APPROVED BY	
APPROVED BY	

TITLE:
Operating Permit No. 30-126
1 Hour Method 9 Observations

<b>SOLVAY MINERALS</b>	GREEN RIVER, WY.
SCALE ON 36"x24" SHR:	NONE
DRAWING NUMBER:	SHT. 1 of 1
<b>SOLVAY2016_1.4_000161</b>	